

<b>THOMSON</b>  <b>DELPHION</b>		<b>RESEARCH</b>	<b>PRODUCTS</b>	<b>INSIDE DELPHION</b>
<a href="#">Home</a>	<a href="#">About Us</a>	<a href="#">My Account</a>	<a href="#">Products</a>	<a href="#">Search: Quick/Number Boolean Advanced</a>

## The Delphion Integrated View

Get Now: <input checked="" type="checkbox"/> PDF   <a href="#">More choices...</a>	Tools: Add to Work File: <a href="#">Create new Wor</a>
View: <a href="#">INPADOC</a>   Jump to: <a href="#">Top</a>	Go to: <a href="#">Derwent..</a>

🔍 Title: **JP4206366A2: FLAT BATTERY**

🔍 Country: JP Japan

🔍 Kind: A

🔍 Inventor: NAKAI KENJI;  
HIGASHIMOTO KOJI;  
HIRONAKA KENSUKE;  
HAYAKAWA TAKUMI;  
KOMAKI AKIO;  
NAKANAGA TAKEFUMI;  
TANIGUCHI MASATOSHI;

🔍 Assignee: SHIN KOBE ELECTRIC MACH CO LTD.  
OTSUKA CHEM CO LTD.  
[News, Profiles, Stocks and More about this company.](#)



🔍 Published / Filed: 1992-07-28 / 1990-11-30

🔍 Application Number: JP1990000333743

🔍 IPC Code: H01M 10/40; H01M 4/02

🔍 Priority Number: 1990-11-30 JP1990000333743

🔍 Abstract:

.... PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material..

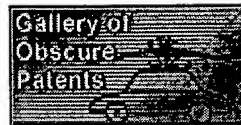
.... CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented..

.... COPYRIGHT: (C)1992,JPO&Japio.

🔍 Family: None

🔍 Other Abstract: None


Info:



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion    [Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)

<b>THOMSON</b>  <b>DELPHION</b>		<b>RESEARCH</b>	<b>PRODUCTS</b>	<b>INSIDE DELPHION</b>
<a href="#">Log On</a>	<a href="#">My Account</a>	<a href="#">Products</a>	Search: <a href="#">Quick/Number</a> <a href="#">Boolean</a> <a href="#">Advanced</a>	

## The Delphion Integrated View

 Get Now: ☒ PDF | [More choices....](#)

 Tools: Add to Work File: [Create new Wor](#)

 View: INPADOC | Jump to: [Top](#) Go to: [Derwent..](#)
[Ema](#)

 Title: **JP4206366A2: FLAT BATTERY**

Country: JP Japan

Kind: A

 Inventor: NAKAI KENJI;  
 HIGASHIMOTO KOJI;  
 HIRONAKA KENSUKE;  
 HAYAKAWA TAKUMI;  
 KOMAKI AKIO;  
 NAKANAGA TAKEFUMI;  
 TANIGUCHI MASATOSHI;

 Assignee: SHIN KOBE ELECTRIC MACH CO LTD.  
 OTSUKA CHEM CO LTD.  
[News, Profiles, Stocks and More about this company](#)


Published / Filed: 1992-07-28 / 1990-11-30

Application Number: JP1990000333743

IPC Code: H01M 10/40; H01M 4/02;

Priority Number: 1990-11-30 JP1990000333743

Abstract:

**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

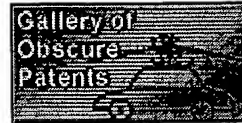
**CONSTITUTION:** On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

COPYRIGHT: (C)1992,JPO&amp;Japio.

Family: None

Other Abstract: None

Info:



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion. . . . Research Subscriptions | Privacy Policy | Terms & Conditions | Site Map | Contac



(19)

(11) Publication number: **04**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

<p>(30) Priority:</p> <p>(43) Date of application publication: <b>28.07.92</b></p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: <b>SHIN KOBE ELECTRIC LTD.</b> <b>OTSUKA CHEM CO LT</b></p> <p>(72) Inventor: <b>NAKAI KENJI</b> <b>HIGASHIMOTO KOJI</b> <b>HIRONAKA KENSUKE</b> <b>HAYAKAWA TAKUMI</b> <b>KOMAKI AKIO</b> <b>NAKANAGA TAKEFUM</b> <b>TANIGUCHI MASATOSH</b></p> <p>(74) Representative:</p>
---	---

**(54) FLAT BATTERY**

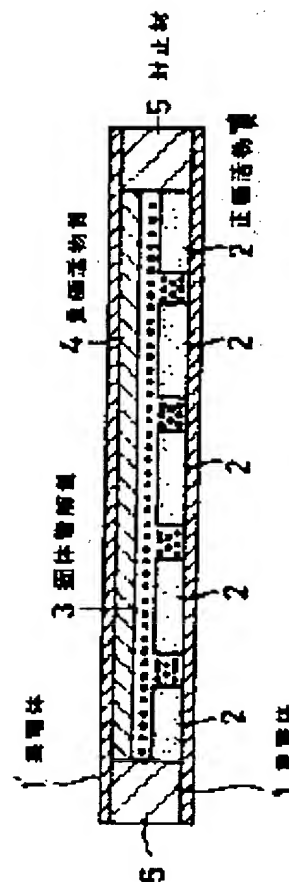
(57) Abstract:

**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

**CONSTITUTION:** On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a

polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

COPYRIGHT: (C)1992,JPO&Japio





(19)

(11) Publication number: **04**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

(30) Priority:

(43) Date of application  
publication: **28.07.92**(84) Designated contracting  
states:(71) Applicant: **SHIN KOBE ELECTRIC  
LTD  
OTSUKA CHEM CO LT**(72) Inventor: **NAKAI KENJI  
HIGASHIMOTO KOJI  
HIRONAKA KENSUKE  
HAYAKAWA TAKUMI  
KOMAKI AKIO  
NAKANAGA TAKEFUM  
TANIGUCHI MASATOSH**

(74) Representative:

**(54) FLAT BATTERY**

(57) Abstract:

**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

**CONSTITUTION:** On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a

polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

COPYRIGHT: (C)1992,JPO&Japio

